PROJECT NUMBER: 0008
PROJECT TITLE: Computer Applications/ Lab Systems
PROJECT LEADER: F. M. Allred
PERIOD COVERED: July 1988

I. General Analytical LIMS Migration

A. Objective: Move General Analytical LIMS and data collection functions off the HP 1000 LABSAM and LAS system.

B. Results: Data collection from gravimetric instruments has been off-loaded from the HP 1000. PC Lab Workstations are used to collect and manage gravimetric data. Approved results are transferred to the HP 1000 in batch mode. If the HP is not available, tests can still be run at the gravimetric instruments.

Sample Logins are now done from the new General Analytical LIMS application on the UNIX host. Automated procedures transfer the login information to the HP and update the LABSAM database.

C. Plans: Test selected chromatography instrument with Nelson Analytical chromatography system. Compare results with current system. Use manual entry of results initially.

II. CTSD Modernization

A. Objective: Eliminate obsolete and difficult to maintain equipment in the CTSD area. Improve reliability of CTSD operations.

B. Results: Collected data for a full day's run of the 4 channel Gas Phase Station.

Completed Gas Phase System Design Verification stage. Each 5-port smoker will have a Data Collection PC running MS DOS and Labtech Notebook. This PC will be coupled to an Analysis PC that will interact with the user and bar-code reader and generate reports.

C. Plans: Develop analysis procedures and reports. Test the data collection unit with the new smoker controller being developed by Development Engineering.

III. Tobacco Lot Analysis Data

A. Objective: Supply Information Services with Tobacco Lot Analysis information upon request.

B. Results: R. Lipps met with R. Rowekamp and finalized the transfer file format. M. Gillie prepared a TK50 tape with the TLA information on it and sent it to R. Rowekamp.

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Source: https://www.industrydocuments.ucsf.edu/docs/pqgm0000

IV. Local Area Network

A. **Objective**: Find a peer-to-peer local area network that works with Apple Macintosh computers, IBM Personal Computers, and computers running UNIX.

B. **Results**: The TOPS product from SUN was evaluated by S. Peterson and was found to have the required functionality. PCs and Macintoshes configured with TOPS can share files and printers without requiring a server. By connecting the TOPS network to a Kinetics TOPS/Ethernet gateway, and installing the appropriate software on a UNIX server, TOPS files can be shared with UNIX systems and vice versa. Printers on the TOPS network are accessible to UNIX.

A TOPS network is installed in PED. It connects two Macintosh II computers and one Club 286 (IBM PC clone). A Kinetics box allows these computers to communicate with the UNIX host.

C. **Plans**: Install a TOPS network in the Flavor Lab to connect four Club 286 computers.

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